THE

Expeditious Calculator;

OR, THE

Merchant, Owner, Sea Captain, and Mate's Aſſiſtant:

SHEWING AT SIGHT,

I. The Standard Deals in all the Ports of *Ruſſia*, *Sweden*, and *Pruſſia*, from a Single Deal to Six Thouſand, from One Inch and a Half to Three Inches Thick, and from Five to Twenty Feet Long; brought into Twelve Feet Deals One Inch and a Half Thick, and to a 36th Part of a Single Deal.

II. The Loads, Feet, and Inches that are contained in, from One to Three Thouſand *Dantzic* Deals, from Eighteen to Forty Feet Long, and from Two to Three Inches Thick.

III. The Standard Deals at *Chriſtiana* and all the Southern Ports of *Norway*, except *Dram*, from Nine to Twenty Feet Long, and from One and a Quarter to Four Inches Thick, from a Single Deal to Six Thouſand; brought into Deals Eleven Feet Long and One and a Quarter Inch Thick, and to a 55th Part of a Single Deal.

IV. The Standard Deals at *Dram* in *Norway*, from a Single Deal to Six Thouſand, from Ten to Twenty Feet Long, and from One and a Quarter to Three Inches Thick, in Ten and Twelve Feet Deals; and from One and a Half to Three Inches Thick, in Deals from Thirteen to Twenty Feet Long; and to a 30th Part of a Single Deal.

By W. WATERS.

WHITBY:

Printed by C. Webſter for the Author, of whom they may be had; and of

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This Work is entered at Stationer's Hall.

[Price Three Shillings.]

MVSEVM
BRITAN
NICVM

THE following Tables were calculated ſome Time ſince for my own private Uſe, not having any Intention of publiſhing them; but being ſolicited by many reſpectable Perſons concerned in the Deal Trade, and who are fully convinced of their Utility, I am thereby induced to ſubmit them to the Notice of the Public. The Conſtruction is entirely new, no ſimilar Production (to the beſt of my Knowledge) having before appeared in Print.

As Accuracy is one of the chief Things to be conſidered in Publications of this Nature, I have only further to obſerve, that ſuch Attention, in that Reſpect, has been paid to *this*, that it may be relied on.

Auguſt 1ſt,
1792.

THE

EXPLANATION and USE

Of the following TABLE.

EVERY Page of this Table conſiſts of four diſtinct Parts, divided from each other by a ſingle Line. The firſt Column to the left Hand ſhews the ſeveral Sums of Deals, from one to ſix Thouſand; the other Columns ſhew the Standard Deals, and to a 36th Part of a ſingle Deal.

EXAMPLE.

Suppoſe 200 Deals, 16 Feet Long and $2\frac{1}{2}$ Inches Thick; and 90 Deals, 14 Feet Long and 2 Inches Thick. How many 12 Feet Deals $1\frac{1}{2}$ Inch Thick will they make?

Look in the Table for the above, and

Againſt	200, 16 Feet $2\frac{1}{2}$ Inches	ſtand	444	16/36*
	90, 14 Feet 2 Inches		140	
		Standard Deals, Anſ.	584	16/36

* The above denotes ſixteen thirty-ſixths; this Character [/] being here uſed to diſtinguiſh the Numerator from the Denominator.

To find the Standard Deals for any Length under 10 Feet by the ſame Table: For 5 Feet Long, of any Thickneſs, go to the Table for 10 Feet, and take half the Sum, gives the Standard Deals. The ſame Method muſt be uſed for 6, 7, 8, and 9 Feet Deals.

The Standard Deals in all the Ports of *Ruſſia*, &c. are 11 Inches Broad: but ſometimes it happens that ſome are 9 or 10 Inches, and ſome few 12 Inches. In theſe Caſes, multiply them by their Breadth and divide by 11, as underneath.

Suppoſe 900 Deals, 16 Feet Long, 2 Inches Thick, and 10 Inches Broad. How many Deals 12 Feet Long, $1\frac{1}{2}$ Inch Thick, and 11 Broad, will they make?

Look in the Table for 16 Feet Deals; oppoſite to 900, in the Column for 2 Inches, you will have 1600 Deals.

1600
10

11) 16000 (1454 6/11, Anſ. Deals, 12 Feet Long, $1\frac{1}{2}$ Inch Thick, and 11 Inches Broad.

When any Quantity of Deals are more or leſs than 11 Inches Broad, take the Standard Deals they will give, out of the Table, and multiply that Sum by the Breadth that they are; then divide by 11, will give the Standard Deals required.

A general Rule for reducing Battens into Deals, by all the Tables of their different Standards, for all the Lengths and Thickneſſes that the Tables contain, without having Tables for that Uſe only, is as follows:

Sup-

Suppoſe four Hundred 20 Feet $2\frac{1}{2}$ Inch Battens:— How many Deals will they make, of the *Ruſſia*, *Pruſſia*, or *Sweden* Standard?

In the Table for 20 Feet Deals, in the Column for $2\frac{1}{2}$ Inches, you will find 1111 4/36 Standard Deals; which, divide by 3, and multiply the Product by 2, will give 740 27/36, the Standard Deals required, as below.

3) 1111 4/36

370 13
2

Anſ. 740 27/36 Standard Deals.

When 2/3 of any Number of Battens can be taken without Fractions, they then are Deals of the ſame Length and Thickneſs as the Battens are; as beneath.

20 Ft. Battens, $2\frac{1}{2}$ In. Thick.	20 Ft. Deals, $2\frac{1}{2}$ In. Thick.	Standard Deals.
3	2	5 20
6	4	11 4
9	6	16 24
30	20	55 20
60	40	111 4
For 90	Take 60	Will give 166 24
300	200	555 20
600	400	1111 4
900	600	1666 24
3000	2000	5555 20
6000	4000	11111 4

A Car-

A CARGO of Deals, received on board the Ship Favorite, at St. *Peterſburgh*, brought into the Standard by the following Table.

870	20 Ft. 3 In. Deals	2900	
250	18 Ditto	750	
300	16 Ditto	800	
700	14 Ditto	1633	12/36
160	12 Ditto	320	
310	10 Ditto	516	24
400	20 Ft. 2½ In. Deals	1111	4
300	16 Ditto	666	24
200	14 Ditto	388	32
198	10 Ditto	275	
400	20 Ft. 2 In. Deals	888	32
268	18 Ditto	536	
300	16 Ditto	533	12
270	14 Ditto	420	
190	12 Ditto	253	12
50	10 Ditto	55	20
5166	Deals.	12048	28/36 Stand. Deals.

Suppoſe the above 5166 Deals to be Battens, of the ſame Length and Thickneſs as above; how many Deals of that Standard will they make?

3) 12048 28/36

4016 9
2

Anſ. 8032 18/36 Standard Deals.

In the above Caſe, a 36th Part of a Deal remains; but this can make little Difference in a Ship's Freight.

When Deals and Iron are took in Proportion one to the other, 3434 Standard Deals are equal to 100 Tons of Iron, and ſo in Proportion for a greater or ſmaller Tonnage of Iron.

N. B. 50 Solid Feet of Timber is a Load, and reckoned 36 Deals and 1/3, the *Ruſſia* Standard.

A

NEW TABLE OF STANDARD DEALS,

READY CAST UP;

Shewing the Standard Deals in all the Ports of *Ruſſia*, *Sweden*, and *Pruſſia*, from a Single Deal to Six Thouſand; and from One Inch and a-Half to Three Inches Thick; and from Five to Twenty Feet long; brought into Twelve Feet Deals One Inch and a-Half Thick, and to a 36th Part of a Single Deal.

10 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 12 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In D.		3 In. D.	
10 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1		30	1	4	1	14	1	24
2	1	24	2	8	2	28	3	12
3	2	18	3	12	4	6	5	
4	3	12	4	16	5	20	6	24
5	4	6	5	20	6	34	8	12
6	5		6	24	8	12	10	
7	5	30	7	28	9	26	11	24
8	6	24	8	32	11	4	13	12
9	7	18	10		12	18	15	
10	8	12	11	4	13	32	16	24
20	16	24	22	8	27	28	33	12
30	25		33	12	41	24	50	
40	33	12	44	16	55	20	66	24
50	41	24	55	20	69	16	83	12
60	50		66	24	83	12	100	
70	58	12	77	28	97	8	116	24
80	66	24	88	32	111	4	133	12
90	75		100		125		150	
100	83	12	111	4	138	32	166	24
200	166	24	222	8	277	28	333	12
300	250		333	12	416	24	500	
400	333	12	444	16	555	20	666	24
500	416	24	555	20	694	16	833	12
600	500		666	24	833	12	1000	
700	583	12	777	28	972	8	1166	24
800	666	24	888	32	1111	4	1333	12
900	750		1000		1250		1500	
1000	833	12	1111	4	1388	32	1666	24
2000	1666	24	2222	8	2777	28	3333	12
3000	2500		3333	12	4166	24	5000	
4000	3333	12	4444	16	5555	20	6666	24
5000	4166	24	5555	20	6944	16	8333	12
6000	5000		6666	24	8333	12	10000	

12 Feet Deals from 2 to 3 Inches Thick, brought into 12 Feet Deals $1\frac{1}{2}$ Inch Thick.

	2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.
12 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D. Pts.
1	1	12	1	24	2
2	2	24	3	12	4
3	4		5		6
4	5	12	6	24	8
5	6	24	8	12	10
6	8		10		12
7	9	12	11	24	14
8	10	24	13	12	16
9	12		15		18
10	13	12	16	24	20
20	26	24	33	12	40
30	40		50		60
40	53	12	66	24	80
50	66	24	83	12	100
60	80		100		120
70	93	12	116	24	140
80	106	24	133	12	160
90	120		150		180
100	133	12	166	24	200
200	266	24	333	12	400
300	400		500		600
400	533	12	666	24	800
500	666	24	833	12	1000
600	800		1000		1200
700	933	12	1166	24	1400
800	1066	24	1333	12	1600
900	1200		1500		1800
1000	1333	12	1666	24	2000
2000	2666	24	3333	12	4000
3000	4000		5000		6000
4000	5333	12	6666	24	8000
5000	6666	24	8333	12	10000
6000	8000		10000		12000

14 Feet Deals from 1½ to 3 Inches Thick, brought into 12 Feet Deals 1½ Inch Thick.

	1½ In. D.		2 In. D.		2½ In. D.		3 In. D.	
14 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	6	1	20	1	34	2	12
2	2	12	3	4	3	32	4	24
3	3	18	4	24	5	30	7	
4	4	24	6	8	7	28	9	12
5	5	30	7	28	9	26	11	24
6	7		9	12	11	24	14	
7	8	6	10	32	13	22	16	12
8	9	12	12	16	15	20	18	24
9	10	18	14		17	18	21	
10	11	24	15	20	19	16	23	12
20	23	12	31	4	38	32	46	24
30	35		46	24	58	12	70	
40	46	24	62	8	77	28	93	12
50	58	12	77	28	97	8	116	24
60	70		93	12	116	24	140	
70	81	24	108	32	136	4	163	12
80	93	12	124	16	155	20	186	24
90	105		140		175		210	
100	116	24	155	20	194	16	233	12
200	233	12	311	4	388	32	466	24
300	350		466	24	583	12	700	
400	466	24	622	8	777	28	933	12
500	583	12	777	28	972	8	1166	24
600	700		933	12	1166	24	1400	
700	816	24	1088	32	1361	4	1633	12
800	933	12	1244	16	1555	20	1866	24
900	1050		1400		1750		2100	
1000	1166	24	1555	20	1944	16	2333	12
2000	2333	12	3111	4	3888	32	4666	24
3000	3500		4666	24	5833	12	7000	
4000	4666	24	6222	8	7777	28	9333	12
5000	5833	12	7777	28	9722	8	11666	24
6000	7000		9333	12	11666	24	14000	

16 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 12 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
16 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	12	1	28	2	8	2	24
2	2	24	3	20	4	16	5	12
3	4		5	12	6	24	8	
4	5	12	7	4	8	32	10	24
5	6	24	8	32	11	4	13	12
6	8		10	24	13	12	16	
7	9	12	12	16	15	20	18	24
8	10	24	14	8	17	28	21	12
9	12		16		20		24	
10	13	12	17	28	22	8	26	24
20	26	24	35	20	44	16	53	12
30	40		53	12	66	24	80	
40	53	12	71	4	88	32	106	24
50	66	24	88	32	111	4	133	12
60	80		106	24	133	12	160	
70	93	12	124	16	155	20	186	24
80	106	24	142	8	177	28	213	12
90	120		160		200		240	
100	133	12	177	28	222	8	266	24
200	266	24	355	20	444	16	533	12
300	400		533	12	666	24	800	
400	533	12	711	4	888	32	1066	24
500	666	24	888	32	1111	4	1333	12
600	800		1066	24	1333	12	1600	
700	933	12	1244	16	1555	20	1866	24
800	1066	24	1422	8	1777	28	2133	12
900	1200		1600		2000		2400	
1000	1333	12	1777	28	2222	8	2666	24
2000	2666	24	3555	20	4444	16	5333	12
3000	4000		5333	12	6666	24	8000	
4000	5333	12	7111	4	8888	32	10666	24
5000	6666	24	8888	32	11111	4	13333	12
6000	8000		10666	24	13333	12	16000	

18 Feet Deals from 1½ to 3 Inches Thick, brought into 12 Feet Deals 1½ Inch Thick.

	1½ In. D.		2 In. D.		2½ In. D.		3 In. D.	
18 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	18	2		2	18	3	
2	3		4		5		6	
3	4	18	6		7	18	9	
4	6		8		10		12	
5	7	18	10		12	18	15	
6	9		12		15		18	
7	10	18	14		17	18	21	
8	12		16		20		24	
9	13	18	18		22	18	27	
10	15		20		25		30	
20	30		40		50		60	
30	45		60		75		90	
40	60		80		100		120	
50	75		100		125		150	
60	90		120		150		180	
70	105		140		175		210	
80	120		160		200		240	
90	135		180		225		270	
100	150		200		250		300	
200	300		400		500		600	
300	450		600		750		900	
400	600		800		1000		1200	
500	750		1000		1250		1500	
600	900		1200		1500		1800	
700	1050		1400		1750		2100	
800	1200		1600		2000		2400	
900	1350		1800		2250		2700	
1000	1500		2000		2500		3000	
2000	3000		4000		5000		6000	
3000	4500		6000		7500		9000	
4000	6000		8000		10000		12000	
5000	7500		10000		12500		15000	
6000	9000		12000		15000		18000	

20 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 12 Feet Deals $1\frac{1}{2}$ Inch Thick

	$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
20 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	24	2	8	2	28	3	12
2	3	12	4	16	5	20	6	24
3	5		6	24	8	12	10	-
4	6	24	8	32	11	4	13	12
5	8	12	11	4	13	32	16	24
6	10		13	12	16	24	20	
7	11	24	15	20	19	16	23	12
8	13	12	17	28	22	8	26	24
9	15		20		25		30	
10	16	24	22	8	27	28	33	12
20	33	12	44	16	55	20	66	24
30	50		66	24	83	12	100	
40	66	24	88	32	111	4	133	12
50	83	12	111	4	138	32	166	24
60	100		133	12	166	24	200	
70	116	24	155	20	194	16	233	12
80	133	12	177	28	222	8	266	24
90	150		200		250		300	
100	166	24	222	8	277	28	333	12
200	333	12	444	16	555	20	666	24
300	500		666	24	833	12	1000	
400	666	24	888	32	1111	4	1333	12
500	833	12	1111	4	1388	32	1666	24
600	1000		1333	12	1666	24	2000	
700	1166	24	1555	20	1944	16	2333	12
800	1333	12	1777	28	2222	8	2666	24
900	1500		2000		2500		3000	
1000	1666	24	2222	8	2777	28	3333	12
2000	3333	12	4444	16	5555	20	6666	24
3000	5000		6666	24	8333	12	10000	
4000	6666	24	8888	32	11111	4	13333	12
5000	8333	12	11111	4	13888	32	16666	24
6000	10000		13333	12	16666	24	20000	

THE
EXPLANATION and USE
Of the following TABLE.

THE firſt Column to the left Hand, ſhews the ſeveral Lengths of Deals in Feet, from 1 to 3000; the other Columns ſhew the Loads, Feet, and Inches.

EXAMPLE.

Suppoſe 400 Deals 40 Feet Long and 3 Inches Thick; 200 Deals 36 Feet Long and $2\frac{1}{2}$ Inches Thick; and 90 Deals 30 Feet Long and $2\frac{1}{2}$ Inches Thick. How many Loads, Feet, and Inches, will they make?

Look in the Table for the above;

Againſt	400, 40 Ft. 3 In. Deals	ſtand	80		
	200, 36 Do. $2\frac{1}{2}$ Do.		30		
	90, 30 Do.		11	12	6
Anſ. in Loads, Feet, and Inches —			121	12	6

The *Dantzic* Oak Planks are of many different Lengths and Breadths, but this Table anſwers only for 18, 24, 30, 36, and 40 Feet Long; and from 2 to 3 Inches Thick, and 12 Broad. The Officers of the Cuſtoms always go on board to meaſure them into Loads, Feet, and Inches, for the King's Duty. By this Meaſure the Freight is paid according to Agreement.

Deals are ſeldom brought under 30 Feet long, without the Merchant writes for ſhorter Lengths.

The Deals are cut to 12 Inches broad.——50 Solid Feet are a Load.—Pipe Staves are generally got for broken Stowage.

A

NEW

TABLE

For finding at Sight, the Loads, Feet, and Inches that are contained in, from One to Three Thouſand *Dantzic* Deals, from 18 to 40 Feet Long, and from 2 to 3 Inches Thick:

Whereby (by Addition only) a Ship's Cargo may, in ten Minutes, be caſt up into Loads, Feet, and Inches; by which the Freight is paid according to Charterparty or Agreement between the Merchant and Captain.

18 Feet *Dantzic* Deals from 2 to 3 Inches Thick, brought into Loads, Feet, and Inches.

18 Ft. Deals.	2 In. D.			2½ In. D.			3 In. D.		
	Lo.	F.	I.	Lo.	F.	I.	Lo.	F.	I.
1		3			3	9		4	6
2		6			7	6		9	
3		9			11	3		13	6
4		12			15			18	
5		15			18	9		22	6
6		18			22	6		27	
7		21			26	3		31	6
8		24			30			36	
9		27			33	9		40	6
10		30			37	6		45	
20	1	10		1	25		1	40	
30	1	40		2	12	6	2	35	
40	2	20		3			3	30	
50	3			3	37	6	4	25	
60	3	30		4	25		5	20	
70	4	10		5	12	6	6	15	
80	4	40		6			7	10	
90	5	20		6	37	6	8	5	
100	6			7	25		9		
200	12			15			18		
300	18			22	25		27		
400	24			30			36		
500	30			37	25		45		
600	36			45			54		
700	42			52	25		63		
800	48			60			72		
900	54			67	25		81		
1000	60			75			90		
2000	120			150			180		
3000	180			225			270		

24 Feet *Dantzic* Deals from 2 to 3 Inches Thick, brought into Loads, Feet, and Inches.

24 Ft. Deals.	2 In. D. Lo. F. I.	2½ In D. Lo. F. I.	3 In. D. Lo. F. I.
1	4	5	6
2	8	10	12
3	12	15	18
4	16	20	24
5	20	25	30
6	24	30	36
7	28	35	42
8	32	40	48
9	36	45	1 4
10	40	1	1 10
20	1 30	2	2 20
30	2 20	3	3 30
40	3 10	4	4 40
50	4	5	6
60	4 40	6	7 10
70	5 30	7	8 20
80	6 20	8	9 30
90	7 10	9	10 40
100	8	10	12
200	16	20	24
300	24	30	36
400	32	40	48
500	40	50	60
600	48	60	72
700	56	70	84
800	64	80	96
900	72	90	108
1000	80	100	120
2000	160	200	240
3000	240	300	360

30 Feet *Dantzic* Deals from 2 to 3 Inches Thick, brought into Loads, Feet, and Inches.

	2 In. D.			2½ In. D.			3 In. D.		
30 Ft. Deals.	Lo.	F.	I.	Lo.	F.	I.	Lo.	F.	I.
1		5			6	3		7	6
2		10			12	6		15	
3		15			18	9		22	6
4		20			25			30	
5		25			31	3		37	6
6		30			37	6		45	
7		35			43	9	1	2	6
8		40		1			1	10	
9		45		1	6	3	1	17	6
10	1			1	12	6	1	25	
20	2			2	25		3		
30	3			3	37	6	4	25	
40	4			5			6		
50	5			6	12	6	7	25	
60	6			7	25		9		
70	7			8	37	6	10	25	
80	8			10			12		
90	9			11	12	6	13	25	
100	10			12	25		15		
200	20			25			30		
300	30			37	25		45		
400	40			50			60		
500	50			62	25		75		
600	60			75			90		
700	70			87	25		105		
800	80			100			120		
900	90			112	25		135		
1000	100			125			150		
2000	200			250			300		
3000	300			375			450		

36 Feet *Dantzic* Deals from 2 to 3 Inches Thick, brought into Loads, Feet, and Inches.

36 Ft. Deals.	2 In. D. Lo.	F.	I.	2½ In. D. Lo.	F.	I.	3 In. D. Lo.	F.	I.
1		6			7	6		9	
2		12			15			18	
3		18			22	6		27	
4		24			30			36	
5		30			37	6		45	
6		36			45		1	4	
7		42		1	2	6	1	13	
8		48		1	10		1	22	
9	1	4		1	17	6	1	31	
10	1	10		1	25		1	40	
20	2	20		3			3	30	
30	3	30		4	25		5	20	
40	4	40		6			7	10	
50	6			7	25		9		
60	7	10		9			10	40	
70	8	20		10	25		12	30	
80	9	30		12			14	20	
90	10	40		13	25		16	10	
100	12			15			18		
200	24			30			36		
300	36			45			54		
400	48			60			72		
500	60			75			90		
600	72			90			108		
700	84			105			126		
800	96			120			144		
900	108			135			162		
1000	120			150			180		
2000	240			300			360		
3000	360			450			540		

40 Feet *Dantzic* Deals from 2 to 3 Inches Thick, brought into Loads, Feet, and Inches.

	2 In. D.			2½ In. D.			3 In. D.		
40 Ft. Deals.	Lo.	F.	I.	Lo.	F.	I.	Lo.	F.	I.
1		6	8		8	4		10	
2		13	4		16	8		20	
3		20			25			30	
4		26	8		33	4		40	
5		33	4		41	8	1		
6		40		1			1	10	
7		46	8	1	8	4	1	20	
8	1	3	4	1	16	8	1	30	
9	1	10		1	25		1	40	
10	1	16	8	1	33	4	2		
20	2	33	4	3	16	8	4		
30	4			5			6		
40	5	16	8	6	33	4	8		
50	6	33	4	8	16	8	10		
60	8			10			12		
70	9	16	8	11	33	4	14		
80	10	33	4	13	16	8	16		
90	12			15			18		
100	13	16	8	16	33	4	20		
200	26	33	4	33	16	8	40		
300	40			50			60		
400	53	16	8	66	33	4	80		
500	66	33	4	83	16	8	100		
600	80			100			120		
700	93	16	8	116	33	4	140		
800	106	33	4	133	16	8	160		
900	120			150			180		
1000	133	16	8	166	33	4	200		
2000	266	33	4	333	16	8	400		
3000	400			500			600		

SOME NECESSARY

OBSERVATIONS

To the following TABLE.

A STANDARD Deal from *Chriſtiana* and all the Southern Ports of *Norway*, except *Dram*, is 11 Feet Long and $1\frac{1}{4}$ Inch Thick.

Three Battens make two Deals, retaining their own Length and Thickneſs.

Half Deals are only counted Deal Ends, if they run under 6 Feet long; but if they run 6 or 7 Feet long, then 2 are counted a Deal, retaining their own Thickneſs.

Four Ends of Deals, although 5 Feet long, make but a Deal 11 Feet long, retaining their Thickneſs, which is counted unreaſonable; but Freighters of Ships ſeldom wiſh to have this Aſſortment, which commonly run from 3 to 5 Feet, and are taken on board as Stowage; conſequently for the Advantage of the Ship, the Ship bears this Burden, deemed unreaſonable.

Six Ends of Battens, called *Larwick* Palings, are counted a ſingle Deal 11 Feet long and $1\frac{1}{4}$ Inch thick.

Staves for Hogſheads occupy a great Deal of Room, in Conſequence of which more than ten ought not to be computed to a ſingle Deal.

The Breadth of *Norway* Deals is never noticed in the Calculation of the Freight. A good Deal ought to run

nine

nine Inches within the Sap, which the 20th Part of a Cargo does not at preſent; but as ſome may be above 9 Inches broad, many perhaps are only 8, ſo one makes up for the other.

One Hunderd of Deals contain 120.

Bill of Lading is an exact Account of a Ship's Cargo, which the Captain has received, and conſequently binding to deliver, according to its Contents.

If theſe Obſervations are carefully attended to, the uſual Difference between the Freighters and Captains will ceaſe; and they will be enabled, with very little Trouble, by the Aſſiſtance of the following TABLE, to find the Contents of a Cargo computed to ſingle Deals.

The Explanation and Uſe of this Table is exactly the ſame as that for the *Ruſſia* Standard, and anſwers for reducing Battens into Deals, the ſame as noted in that Direction.

For EXAMPLE:

Suppoſe ſix Hundred 12 Feet $2\frac{1}{2}$ Inch Battens; how many Deals will they make? Take 400, the 2/3 of 600, will give in the Table 872 40/55 Standard Deals. Or, take 1309 5, which the Table gives for 600 Battens, divide that Sum by 3, and multiply the Product by 2, will give 872 40/55, the Standard Deals, as follows:

3)1309

3)1309 5/55

436 20
2

Anſ. 872 40/55 Standard Deals.

You will find the Difference between the *Chriſtiana* and *Dram* Standard to be as underneath:

Fifty 12 Feet Deals 3 Inches Thick in the following Table, will give 130 Standard Deals and 50/55; and in the Table for *Dram* Standard, will give only 120 Deals, the Difference being nearly 11 Deals in 120, greater Meaſure than that of *Chriſtiana*. On this Account, the Freights to *Dram* ought to be in Proportion to bring it on a Footing with that of *Chriſtiana*.

A Ship that will ſtow 20000 Deals at *Dram*, will ſtow 1800 more at *Chriſtiana*.

It has ſometimes happened that Ships both for *Chriſtiana* and *Dram* have been in Company, and the *Chriſtiana* Ships have got up, loaded, and ſailed, before the *Dram* Ships have got over *Dram* Stroom, which runs very ſtrong down in the Spring of the Year.

A

NEW

TABLE

SHEWING AT SIGHT,

The Standard Deals at *Chriſtiana* and all the Southern Ports of *Norway*, except *Dram*, from 9 to 20 Feet Long, and from $1\frac{1}{4}$ to 4 Inches Thick, from a ſingle Deal to Six Thouſand; brought into Deals 11 Feet Long and $1\frac{1}{4}$ Inch Thick, and to a 55th Part of a ſingle Deal; the proper Standard Meaſure by which the Freight is paid according to Charterparty.

9 Feet Deals from $1\frac{1}{4}$ to 2 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In. D.		2 In. D.	
9 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1		45		54	1	17
2	1	35	1	53	2	34
3	2	25	2	52	3	51
4	3	15	3	51	5	13
5	4	5	4	50	6	30
6	4	50	5	49	7	47
7	5	40	6	48	9	9
8	6	30	7	47	10	26
9	7	20	8	46	11	43
10	8	10	9	45	13	5
20	16	20	19	35	26	10
30	24	30	29	25	39	15
40	32	40	39	15	52	20
50	40	50	49	5	65	25
60	49	5	58	50	78	30
70	57	15	68	40	91	35
80	65	25	78	30	104	40
90	73	35	88	20	117	45
100	81	45	98	10	130	50
200	163	35	196	20	261	45
300	245	25	294	30	392	40
400	327	15	392	40	523	35
500	409	5	490	50	654	30
600	490	50	589	5	785	25
700	572	40	687	15	916	20
800	654	30	785	25	1047	15
900	736	20	883	35	1178	10
1000	818	10	981	45	1309	5
2000	1636	20	1963	35	2618	10
3000	2454	30	2945	25	2927	15
4000	3272	40	3927	15	5236	20
5000	4090	50	4909	5	6545	25
6000	4909	5	5890	50	7854	30

9 Feet Deals from $2\frac{1}{2}$ to 4 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$2\frac{1}{2}$ In. D.		3 In. D.		4 In. D.	
9 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	35	1	53	2	34
2	3	15	3	51	5	13
3	4	50	5	49	7	47
4	6	30	7	47	10	26
5	8	10	9	45	13	5
6	9	45	11	43	15	29
7	11	25	13	41	18	18
8	13	5	15	39	20	52
9	14	40	17	37	23	31
10	16	20	19	35	26	10
20	32	40	39	15	52	20
30	49	5	58	50	78	30
40	65	25	78	30	104	40
50	81	45	98	10	130	50
60	98	10	117	45	157	5
70	114	30	137	25	183	15
80	130	50	157	5	209	25
90	147	15	176	40	235	35
100	163	35	196	20	261	45
200	327	15	392	40	523	35
300	490	50	589	5	785	25
400	654	30	785	25	1047	15
500	818	10	981	45	1309	5
600	981	45	1178	10	1570	50
700	1145	25	1374	30	1832	40
800	1309	5	1570	50	2094	30
900	1472	40	1767	15	2356	20
1000	1636	20	1963	35	2618	10
2000	3272	40	3927	15	5236	20
3000	4909	5	5890	50	7854	30
4000	6545	25	7854	30	10472	40
5000	8181	45	9818	10	13090	50
6000	9818	10	11781	45	15709	5

10 Feet Deals from $1\frac{1}{4}$ to 2 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In. D.		2 In. D.	
10 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1		50	1	5	1	25
2	1	45	2	10	2	50
3	2	40	3	15	4	20
4	3	35	4	20	5	45
5	4	30	5	25	7	15
6	5	25	6	30	8	40
7	6	20	7	35	10	10
8	7	15	8	40	11	35
9	8	10	9	45	13	5
10	9	5	10	50	14	30
20	18	10	21	45	29	5
30	27	15	32	40	43	35
40	36	20	43	35	58	10
50	45	25	54	30	72	40
60	54	30	65	25	87	15
70	63	35	76	20	101	45
80	72	40	87	15	116	20
90	81	45	98	10	130	50
100	90	50	109	5	145	25
200	181	45	218	10	290	50
300	272	40	327	15	436	20
400	363	35	436	20	581	45
500	454	30	545	25	727	15
600	545	25	654	30	872	40
700	636	20	763	35	1018	10
800	727	15	872	40	1163	35
900	818	10	981	45	1309	5
1000	909	5	1090	50	1454	30
2000	1818	10	2181	45	2909	5
3000	2727	15	3272	40	4363	35
4000	3636	20	4363	35	5818	10
5000	4545	25	5454	30	7272	40
6000	5454	30	6545	25	8727	15

10 Feet Deals from $2\frac{1}{2}$ to 4 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$2\frac{1}{2}$ In. D.		3 In. D.		4 In. D.	
10 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	45	2	10	2	50
2	3	35	4	20	5	45
3	5	25	6	30	8	40
4	7	15	8	40	11	35
5	9	5	10	50	14	30
6	10	50	13	5	17	25
7	12	40	15	15	20	20
8	14	30	17	25	23	15
9	16	20	19	35	26	10
10	18	10	21	45	29	5
20	36	20	43	35	58	10
30	54	30	65	25	87	15
40	72	40	87	15	116	20
50	90	50	109	5	145	25
60	109	5	130	50	174	30
70	127	15	152	40	203	35
80	145	25	174	30	232	40
90	163	35	196	20	261	45
100	181	45	218	10	290	50
200	363	35	436	20	581	45
300	545	25	654	30	872	40
400	727	15	872	40	1163	35
500	909	5	1090	50	1454	30
600	1090	50	1309	5	1745	25
700	1272	40	1527	15	2036	20
800	1454	30	1745	25	2327	15
900	1636	20	1963	35	2618	10
1000	1818	10	2181	45	2909	5
2000	3636	20	4363	35	5818	10
3000	5454	30	6545	25	8727	15
4000	7272	40	8727	15	11636	20
5000	9090	50	10909	5	14545	25
6000	10909	5	13090	50	17454	30

11 Feet Deals from $1\frac{1}{2}$ to 4 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In D.		3 In. D.		4 In. D.	
11 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	11	1	33	2		2	22	3	11
2	2	22	3	11	4		4	44	6	22
3	3	33	4	44	6		7	11	9	33
4	4	44	6	22	8		9	33	12	44
5	6		8		10		12		16	
6	7	11	9	33	12		14	22	19	11
7	8	22	11	11	14		16	44	22	22
8	9	33	12	44	16		19	11	25	33
9	10	44	14	22	18		21	33	28	44
10	12		16		20		24		32	
20	24		32		40		48		64	
30	36		48		60		72		96	
40	48		64		80		96		128	
50	60		80		100		120		160	
60	72		96		120		144		192	
70	84		112		140		168		224	
80	96		128		160		192		256	
90	108		144		180		216		288	
100	120		160		200		240		320	
200	240		320		400		480		640	
300	360		480		600		720		960	
400	480		640		800		960		1280	
500	600		800		1000		1200		1600	
600	720		960		1200		1440		1920	
700	840		1120		1400		1680		2240	
800	960		1280		1600		1920		2560	
900	1080		1440		1800		2160		2880	
1000	1200		1600		2000		2400		3200	
2000	2400		3200		4000		4800		6400	
3000	3600		4800		6000		7200		9600	
4000	4800		6400		8000		9600		12800	
5000	6000		8000		10000		12000		16000	
6000	7200		9600		12000		14400		19200	

12 Feet Deals from 1¼ to 2 Inches Thick, brought into 11 Feet Deals 1¼ Inch Thick.

	1¼ In. D.		1½ In. D.		2 In. D.	
12 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	5	1	17	1	41
2	2	10	2	34	3	27
3	3	15	3	51	5	13
4	4	20	5	13	6	54
5	5	25	6	30	8	40
6	6	30	7	47	10	26
7	7	35	9	9	12	12
8	8	40	10	26	13	53
9	9	45	11	43	15	39
10	10	50	13	5	17	25
20	21	45	26	10	34	50
30	32	40	39	15	52	20
40	43	35	52	20	69	45
50	54	30	65	25	87	15
60	65	25	78	30	104	40
70	76	20	91	35	122	10
80	87	15	104	40	139	35
90	98	10	117	45	157	5
100	109	5	130	50	174	30
200	218	10	261	45	349	5
300	327	15	392	40	523	35
400	436	20	523	35	698	10
500	545	25	654	30	872	40
600	654	30	785	25	1047	15
700	763	35	916	20	1221	45
800	872	40	1047	15	1396	20
900	981	45	1178	10	1570	50
1000	1090	50	1309	5	1745	25
2000	2181	45	2618	10	3490	50
3000	3272	40	3927	15	5236	20
4000	4363	35	5236	20	6981	45
5000	5454	30	6545	25	8727	15
6000	6545	25	7854	30	10472	40

12 Feet Deals from $2\frac{1}{2}$ to 4 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$2\frac{1}{2}$ In. D.		3 In. D.		4 In. D.	
12 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	2	10	2	34	3	27
2	4	20	5	13	6	54
3	6	30	7	47	10	26
4	8	40	10	26	13	53
5	10	50	13	5	17	25
6	13	5	15	39	20	52
7	15	15	18	18	24	24
8	17	25	20	52	27	51
9	19	35	23	31	31	23
10	21	45	26	10	34	50
20	43	35	52	20	69	45
30	65	25	78	30	104	40
40	87	15	104	40	139	35
50	109	5	130	50	174	30
60	130	50	157	5	209	25
70	152	40	183	15	244	20
80	174	30	209	25	279	15
90	196	20	235	35	314	10
100	218	10	261	45	349	5
200	436	20	523	35	698	10
300	654	30	785	25	1047	15
400	872	40	1047	15	1396	20
500	1090	50	1309	5	1745	25
600	1309	5	1570	50	2094	30
700	1527	15	1832	40	2443	35
800	1745	25	2094	30	2792	40
900	1963	35	2356	20	3141	45
1000	2181	45	2618	10	3490	50
2000	4363	35	5236	20	6981	45
3000	6545	25	7854	30	10472	40
4000	8727	15	10472	40	13963	35
5000	10909	5	13090	50	17454	30
6000	13090	50	15709	5	20945	25

13 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In D.		3 In. D.	
13 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	10	1	23	1	49	2	20	2	46
2	2	20	2	46	3	43	4	40	5	37
3	3	30	4	14	5	37	7	5	8	28
4	4	40	5	37	7	31	9	25	11	19
5	5	50	7	5	9	25	11	45	14	10
6	7	5	8	28	11	19	14	10	17	1
7	8	15	9	51	13	13	16	30	19	47
8	9	25	11	19	15	7	18	50	22	38
9	10	35	12	42	17	1	21	15	25	29
10	11	45	14	10	18	50	23	35	28	20
20	23	35	28	20	37	45	47	15	56	40
30	35	25	42	30	56	40	70	50	85	5
40	47	15	56	40	75	35	94	30	113	25
50	59	5	70	50	94	30	118	10	141	45
60	70	50	85	5	113	25	141	45	170	10
70	82	40	99	15	132	20	165	25	198	30
80	94	30	113	25	151	15	189	5	226	50
90	106	20	127	35	170	10	212	40	255	15
100	118	10	141	45	189	5	236	20	283	35
200	236	20	283	35	378	10	472	40	567	15
300	354	30	425	25	567	15	709	5	850	50
400	472	40	567	15	756	20	945	25	1134	30
500	590	50	709	5	945	25	1181	45	1418	10
600	709	5	850	50	1134	30	1418	10	1701	45
700	827	15	992	40	1323	35	1654	30	1985	25
800	945	25	1134	30	1512	40	1890	50	2269	5
900	1063	35	1276	20	1701	45	2127	15	2552	40
1000	1181	45	1418	10	1890	50	2363	35	2836	20
2000	2363	35	2836	20	3781	45	4727	15	5672	40
3000	3545	25	4254	30	5672	40	7090	50	8509	5
4000	4727	15	5672	40	7563	35	9454	30	11345	25
5000	5909	5	7090	50	9454	30	11818	10	14181	45
6000	7090	50	8509	5	11345	25	14181	45	17018	10

14 Feet Deals from 1¼ to 3 Inches Thick, brought into 11 Feet Deals 1¼ Inch Thick.

	1¼ In. D.		1½ In. D.		2 In. D.		2½ In. D.		3 In. D.	
14 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	15	1	29	2	2	2	30	3	3
2	2	30	3	3	4	4	5	5	6	6
3	3	45	4	32	6	6	7	35	9	9
4	5	5	6	6	8	8	10	10	12	12
5	6	20	7	35	10	10	12	40	15	15
6	7	35	9	9	12	12	15	15	18	18
7	8	50	10	38	14	14	17	45	21	21
8	10	10	12	12	16	16	20	20	24	24
9	11	25	13	41	18	18	22	50	27	27
10	12	40	15	15	20	20	25	25	30	30
20	25	25	30	30	40	40	50	50	61	5
30	38	10	45	45	61	5	76	20	91	35
40	50	50	61	5	81	25	101	45	122	10
50	63	35	76	20	101	45	127	15	152	40
60	76	20	91	35	122	10	152	40	183	15
70	89	5	106	50	142	30	178	10	213	45
80	101	45	122	10	162	50	203	35	244	20
90	114	30	137	25	183	15	229	5	274	50
100	127	15	152	40	203	35	254	30	305	25
200	254	30	305	25	407	15	509	5	610	50
300	381	45	458	10	610	50	763	35	916	20
400	509	5	610	50	814	30	1018	10	1221	45
500	636	20	763	35	1018	10	1272	40	1527	15
600	763	35	916	20	1221	45	1527	15	1832	40
700	890	50	1069	5	1425	25	1781	45	2138	10
800	1018	10	1221	45	1629	5	2036	20	2443	35
900	1145	25	1374	30	1832	40	2290	50	2749	5
1000	1272	40	1527	15	2036	20	2545	25	3054	30
2000	2545	25	3054	30	4072	40	5090	50	6109	5
3000	3818	10	4581	45	6109	5	7636	20	9163	35
4000	5090	50	6109	5	8145	25	10181	45	12218	10
5000	6363	35	7636	20	10181	45	12727	15	15272	40
6000	7636	20	9163	35	12218	10	15272	40	18327	15

15 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
15 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	20	1	35	2	10	2	40	3	15
2	2	40	3	15	4	20	5	25	6	30
3	4	5	4	50	6	30	8	10	9	45
4	5	25	6	30	8	40	10	50	13	5
5	6	45	8	10	10	50	13	35	16	20
6	8	10	9	45	13	5	16	20	19	35
7	9	30	11	25	15	15	19	5	22	50
8	10	50	13	5	17	25	21	45	26	10
9	12	15	14	40	19	35	24	30	29	25
10	13	35	16	20	21	45	27	15	32	40
20	27	15	32	40	43	35	54	30	65	25
30	40	50	49	5	65	25	81	45	98	10
40	54	30	65	25	87	15	109	5	130	50
50	68	10	81	45	109	5	136	20	163	35
60	81	45	98	10	130	50	163	35	196	20
70	95	25	114	30	152	40	190	50	229	5
80	109	5	130	50	174	30	218	10	261	45
90	122	40	147	15	196	20	245	25	294	30
100	136	20	163	35	218	10	272	40	327	15
200	272	40	327	15	436	20	545	25	654	30
300	409	5	490	50	654	30	818	10	981	45
400	545	25	654	30	872	40	1090	50	1309	5
500	681	45	818	10	1090	50	1363	35	1636	20
600	818	10	981	45	1309	5	1636	20	1963	35
700	954	30	1145	25	1527	15	1909	5	2290	50
800	1090	50	1309	5	1745	25	2181	45	2618	10
900	1227	15	1472	40	1963	35	2454	30	2945	25
1000	1363	35	1636	20	2181	45	2727	15	3272	40
2000	2727	15	3272	40	4363	35	5454	30	6545	25
3000	4090	50	4909	5	6545	25	8181	45	9818	10
4000	5454	30	6545	25	8727	15	10909	5	13090	50
5000	6818	10	8181	45	10909	5	13636	20	16363	35
6000	8181	45	9818	10	13090	50	16363	35	19636	20

16 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
16 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	25	1	41	2	18	2	50	3	27
2	2	50	3	27	4	36	5	45	6	54
3	4	20	5	13	6	54	8	40	10	26
4	5	45	6	54	9	17	11	35	13	53
5	7	15	8	40	11	35	14	30	17	25
6	8	40	10	26	13	53	17	25	20	52
7	10	10	12	12	16	16	20	20	24	24
8	11	35	13	53	18	34	23	15	27	51
9	13	5	15	39	20	52	26	10	31	23
10	14	30	17	25	23	15	29	5	34	50
20	29	5	34	50	46	30	58	10	69	45
30	43	35	52	20	69	45	87	15	104	40
40	58	10	69	45	93	5	116	20	139	35
50	72	40	87	15	116	20	145	25	174	30
60	87	15	104	40	139	35	174	30	209	25
70	101	45	122	10	162	50	203	35	244	20
80	116	20	139	35	186	10	232	40	279	15
90	130	50	157	5	209	25	261	45	314	10
100	145	25	174	30	232	40	290	50	349	5
200	290	50	349	5	465	25	581	45	698	10
300	436	20	523	35	698	10	872	40	1047	15
400	581	45	698	10	930	50	1163	35	1396	20
500	727	15	872	40	1163	35	1454	30	1745	25
600	872	40	1047	15	1396	20	1745	25	2094	30
700	1018	10	1221	45	1629	5	2036	20	2443	35
800	1163	35	1396	20	1861	45	2327	15	2792	40
900	1309	5	1570	50	2094	30	2618	10	3141	45
1000	1454	30	1745	25	2327	15	2909	5	3490	50
2000	2909	5	3490	50	4654	30	5818	10	6981	45
3000	4363	35	5236	20	6981	45	8727	15	10472	40
4000	5818	10	6981	45	9309	5	11636	20	13963	35
5000	7272	40	8727	15	11636	20	14545	25	17454	30
6000	8727	15	10472	40	13963	35	17454	30	20945	25

17 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
17 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	30	1	47	2	26	3	5	3	39
2	3	5	3	39	4	52	6	10	7	23
3	4	35	5	31	7	23	9	15	11	7
4	6	10	7	23	9	49	12	20	14	46
5	7	40	9	15	12	20	15	25	18	30
6	9	15	11	7	14	46	18	30	22	14
7	10	45	12	54	17	17	21	35	25	53
8	12	20	14	46	19	43	24	40	29	37
9	13	50	16	38	22	14	27	45	33	21
10	15	25	18	30	24	40	30	50	37	5
20	30	50	37	5	49	25	61	45	74	10
30	46	20	55	35	74	10	92	40	111	15
40	61	45	74	10	98	50	123	35	148	20
50	77	15	92	40	123	35	154	30	185	25
60	92	40	111	15	148	20	185	25	222	30
70	108	10	129	45	173	5	216	20	259	35
80	123	35	148	20	197	45	247	15	296	40
90	139	5	166	50	222	30	278	10	333	45
100	154	30	185	25	247	15	309	5	370	50
200	309	5	370	50	494	30	618	10	741	45
300	463	35	556	20	741	45	927	15	1112	40
400	618	10	741	45	989	5	1236	20	1483	35
500	772	40	927	15	1236	20	1545	25	1854	30
600	927	15	1112	40	1483	35	1854	30	2225	25
700	1081	45	1298	10	1730	50	2163	35	2596	20
800	1236	20	1483	35	1978	10	2472	40	2967	15
900	1390	50	1669	5	2225	25	2781	45	3338	10
1000	1545	25	1854	30	2472	40	3090	50	3709	5
2000	3090	50	3709	5	4945	25	6181	45	7418	10
3000	4636	20	5563	35	7418	10	9272	40	11127	15
4000	6181	45	7418	10	9890	50	12363	35	14836	20
5000	7727	15	9272	40	12363	35	15454	30	18545	25
6000	9272	40	11127	15	14836	20	18545	25	22254	30

18 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
18 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	35	1	53	2	34	3	15	3	51
2	3	15	3	51	5	13	6	30	7	47
3	4	50	5	49	7	47	9	45	11	43
4	6	30	7	47	10	26	13	5	15	39
5	8	10	9	45	13	5	16	20	19	35
6	9	45	11	43	15	39	19	35	23	31
7	11	25	13	41	18	18	22	50	27	27
8	13	5	15	39	20	52	26	10	31	23
9	14	40	17	37	23	31	29	25	35	19
10	16	20	19	35	26	10	32	40	39	15
20	32	40	39	15	52	20	65	25	78	30
30	49	5	58	50	78	30	98	10	117	45
40	65	25	78	30	104	40	130	50	157	5
50	81	45	98	10	130	50	163	35	196	20
60	98	10	117	45	157	5	196	20	235	35
70	114	30	137	25	183	15	229	5	274	50
80	130	50	157	5	209	25	261	45	314	10
90	147	15	176	40	235	35	294	30	353	25
100	163	35	196	20	261	45	327	15	392	40
200	327	15	392	40	523	35	654	30	785	25
300	490	50	589	5	785	25	981	45	1178	10
400	654	30	785	25	1047	15	1309	5	1570	50
500	818	10	981	45	1309	5	1636	20	1963	35
600	981	45	1178	10	1570	50	1963	35	2356	20
700	1145	25	1374	30	1832	40	2290	50	2749	5
800	1309	5	1570	50	2094	30	2618	10	3141	45
900	1472	40	1767	15	2356	20	2945	25	3534	30
1000	1636	20	1963	35	2618	10	3272	40	3927	15
2000	3272	40	3927	15	5236	20	6545	25	7854	30
3000	4909	5	5890	50	7854	30	9818	10	11781	45
4000	6545	25	7854	30	10472	40	13090	50	15709	5
5000	8181	45	9818	10	13090	50	16363	35	19636	20
6000	9818	10	11781	45	15709	5	19636	20	23563	35

19 Feet Deals from 1¼ to 3 Inches Thick, brought into 11 Feet Deals 1¼ Inch Thick.

	1¼ In. D.		1½ In. D.		2 In. D.		2½ In. D.		3 In. D.	
19 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	40	2	4	2	42	3	25	4	8
2	3	35	4	8	5	29	6	50	8	16
3	5	10	6	12	8	16	10	20	12	24
4	6	50	8	16	11	3	13	45	16	32
5	8	35	10	20	13	45	17	15	20	40
6	10	20	12	24	16	32	20	40	24	48
7	12	5	14	28	19	19	24	10	29	1
8	13	45	16	32	22	6	27	35	33	9
9	15	30	18	36	24	48	31	5	37	17
10	17	15	20	40	27	35	34	30	41	25
20	34	30	41	25	55	15	69	5	82	50
30	51	45	62	10	82	50	103	35	124	20
40	69	5	82	50	110	30	138	10	165	45
50	86	20	103	35	138	10	172	40	207	15
60	103	35	124	20	165	45	207	15	248	40
70	120	50	145	5	193	25	241	45	290	10
80	138	10	165	45	221	5	276	20	331	35
90	155	25	186	30	248	40	310	50	373	5
100	172	40	207	15	276	20	345	25	414	30
200	345	25	414	30	552	40	690	50	829	5
300	518	10	621	45	829	5	1036	20	1243	35
400	690	50	829	5	1105	25	1381	45	1658	10
500	863	35	1036	20	1381	45	1727	15	2072	40
600	1036	20	1243	35	1658	10	2072	40	2487	15
700	1209	5	1450	50	1934	30	2418	10	2901	45
800	1381	45	1658	10	2210	50	2763	35	3316	20
900	1554	30	1865	25	2487	15	3109	5	3730	50
1000	1727	15	2072	40	2763	35	3454	30	4145	25
2000	3454	30	4145	25	5527	15	6909	5	8290	50
3000	5181	45	6218	10	8290	50	10363	35	12436	20
4000	6909	5	8290	50	11054	30	13818	10	16581	45
5000	8636	20	10363	35	13818	10	17272	40	20727	15
6000	10363	35	12436	20	16581	45	20727	15	24872	40

20 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 11 Feet Deals $1\frac{1}{4}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
20 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	45	2	10	2	50	3	35	4	20
2	3	35	4	20	5	45	7	15	8	40
3	5	25	6	30	8	40	10	50	13	5
4	7	15	8	40	11	35	14	30	17	25
5	9	5	10	50	14	30	18	10	21	45
6	10	50	13	5	17	25	21	45	26	10
7	12	40	15	15	20	20	25	25	30	30
8	14	30	17	25	23	15	29	5	34	50
9	16	20	19	35	26	10	32	40	39	15
10	18	10	21	45	29	5	36	20	43	35
20	36	20	43	35	58	10	72	40	87	15
30	54	30	65	25	87	15	109	5	130	50
40	72	40	87	15	116	20	145	25	174	30
50	90	50	109	5	145	25	181	45	218	10
60	109	5	130	50	174	30	218	10	261	45
70	127	15	152	40	203	35	254	30	305	25
80	145	25	174	30	232	40	290	50	349	5
90	163	35	196	20	261	45	327	15	392	40
100	181	45	218	10	290	50	363	35	436	20
200	363	35	436	20	581	45	727	15	872	40
300	545	25	654	30	872	40	1090	50	1309	5
400	727	15	872	40	1163	35	1454	30	1745	25
500	909	5	1090	50	1454	30	1818	10	2181	45
600	1090	50	1309	5	1745	25	2181	45	2618	10
700	1272	40	1527	15	2036	20	2545	25	3054	30
800	1454	30	1745	25	2327	15	2909	5	3490	50
900	1636	20	1963	35	2618	10	3272	40	3927	15
1000	1818	10	2181	45	2909	5	3636	20	4363	35
2000	3636	20	4363	35	5818	10	7272	40	8727	15
3000	5454	30	6545	25	8727	15	10909	5	13090	50
4000	7272	40	8727	15	11636	20	14545	25	17454	30
5000	9090	50	10909	5	14545	25	18181	45	21818	10
6000	10909	5	13090	50	17454	30	21818	10	26181	45

SOME NECESSARY

OBSERVATIONS

To the following TABLE.

THE Uſe of this Table is in every Reſpect the ſame as that of *Chriſtiana*, for finding the Standard Deals and reducing Battens into Deals.

EXAMPLE.

Suppoſe nine Hundred 18 Feet $1\frac{1}{2}$ Inch Battens; How many Deals will they make? Take 600, the 2/3 of 900, will give in the Table 1080 Standard Deals.—Or, take 1620, which you will find in the Table oppoſite to 900 in the Column for $1\frac{1}{2}$ Inch, which, divide by 3, and multiply the Product by 2, will give 1080 Standard Deals, as beneath:

3) 1620

540
2

Anſ. 1080 Standard Deals.

If any Deals from 13 to 20 Feet long, and $1\frac{1}{4}$ Inch thick, ſhould be imported, apply to the Table for the Length you want, and take Half the Sum that you find in the $2\frac{1}{2}$ Inch Column, will be the Standard Deals of $1\frac{1}{4}$ Inch thick.

For EXAMPLE:

In ſix Hundred 16 Feet Deals $1\frac{1}{4}$ Inch thick, how many 10 Feet Deals $1\frac{1}{2}$ Inch thick are there?

In

In the Table for 16 Feet Deals, oppoſite to 600, in the Column for $2\frac{1}{2}$ Inches, you will find

1600

Half of which is — 800 Standard Deals, $1\frac{1}{2}$ Inch thick. The ſame muſt be obſerved for any Length from 13 to 20 Feet long, for $1\frac{1}{4}$ Inch thick.

The Reaſon why I have not made a Column for $1\frac{1}{4}$ Inch Deals above 12 Feet long in this Table, is, that a Hundred of this Thickneſs pays the ſame Duty as a Hundred of 3 Inch Deals; and on that Account, the thicker Deals are, for the moſt Part, imported to *London*, and the $1\frac{1}{4}$ to bye Markets; but all the Lengths and Thickneſſes contained in this Table, are ſent to Foreign Ports.

A

NEW

TABLE

SHEWING AT SIGHT,

The Standard Deals at *Dram* in *Norway*, from a ſingle Deal to 6000, from 10 to 20 Feet Long, and from $1\frac{1}{4}$ to 3 Inches Thick, in 10 and 12 Feet Deals;— and from $1\frac{1}{2}$ to 3 Inches Thick, in Deals from 13 to 20 Feet Long, and to a 30th Part of a ſingle Deal.

10 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{4}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.
10 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D. Pts.
1		25	1	10	1	20	2
2	1	20	2	20	3	10	4
3	2	15	4		5		6
4	3	10	5	10	6	20	8
5	4	5	6	20	8	10	10
6	5		8		10		12
7	5	25	9	10	11	20	14
8	6	20	10	20	13	10	16
9	7	15	12		15		18
10	8	10	13	10	16	20	20
20	16	20	26	20	33	10	40
30	25		40		50		60
40	33	10	53	10	66	20	80
50	41	20	66	20	83	10	100
60	50		80		100		120
70	58	10	93	10	116	20	140
80	66	20	106	20	133	10	160
90	75		120		150		180
100	83	10	133	10	166	20	200
200	166	20	266	20	333	10	400
300	250		400		500		600
400	333	10	533	10	666	20	800
500	416	20	666	20	833	10	1000
600	500		800		1000		1200
700	583	10	933	10	1166	20	1400
800	666	20	1066	20	1333	10	1600
900	750		1200		1500		1800
1000	833	10	1333	10	1666	20	2000
2000	1666	20	2666	20	3333	10	4000
3000	2500		4000		5000		6000
4000	3333	10	5333	10	6666	20	8000
5000	4166	20	6666	20	8333	10	10000
6000	5000		8000		10000		12000

11 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
11 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	3	1	14	1	25	2	6
2	2	6	2	28	3	20	4	12
3	3	9	4	12	5	15	6	18
4	4	12	5	26	7	10	8	24
5	5	15	7	10	9	5	11	
6	6	18	8	24	11		13	6
7	7	21	10	8	12	25	15	12
8	8	24	11	22	14	20	17	18
9	9	27	13	6	16	15	19	24
10	11		14	20	18	10	22	
20	22		29	10	36	20	44	
30	33		44		55		66	
40	44		58	20	73	10	88	
50	55		73	10	91	20	110	
60	66		88		110		132	
70	77		102	20	128	10	154	
80	88		117	10	146	20	176	
90	99		132		165		198	
100	110		146	20	183	10	220	
200	220		293	10	366	20	440	
300	330		440		550		660	
400	440		586	20	733	10	880	
500	550		733	10	916	20	1100	
600	660		880		1100		1320	
700	770		1026	20	1283	10	1540	
800	880		1173	10	1466	20	1760	
900	990		1320		1650		1980	
1000	1100		1466	20	1833	10	2200	
2000	2200		2933	10	3666	20	4400	
3000	3300		4400		5500		6600	
4000	4400		5866	20	7333	10	8800	
5000	5500		7333	10	9166	20	11000	
6000	6600		8800		11000		13200	

12 Feet Deals from $1\frac{1}{4}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{4}$ In. D.	$1\frac{1}{2}$ In. D.	2 In. D.	$2\frac{1}{2}$ In. D.	3 In. D.
12 Ft. Deals.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.
1	1	1 6	1 18	2	2 12
2	2	2 12	3 6	4	4 24
3	3	3 18	4 24	6	7 6
4	4	4 24	6 12	8	9 18
5	5	6	8	10	12
6	6	7 6	9 18	12	14 12
7	7	8 12	11 6	14	16 24
8	8	9 18	12 24	16	19 6
9	9	10 24	14 12	18	21 18
10	10	12	16	20	24
20	20	24	32	40	48
30	30	36	48	60	72
40	40	48	64	80	96
50	50	60	80	100	120
60	60	72	96	120	144
70	70	84	112	140	168
80	80	96	128	160	192
90	90	108	144	180	216
100	100	120	160	200	240
200	200	240	320	400	480
300	300	360	480	600	720
400	400	480	640	800	960
500	500	600	800	1000	1200
600	600	720	960	1200	1440
700	700	840	1120	1400	1680
800	800	960	1280	1600	1920
900	900	1080	1440	1800	2160
1000	1000	1200	1600	2000	2400
2000	2000	2400	3200	4000	4800
3000	3000	3600	4800	6000	7200
4000	4000	4800	6400	8000	9600
5000	5000	6000	8000	10000	12000
6000	6000	7200	9600	12000	14400

13 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
13 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	9	1	22	2	5	2	18
2	2	18	3	14	4	10	5	6
3	3	27	5	6	6	15	7	24
4	5	6	6	28	8	20	10	12
5	6	15	8	20	10	25	13	
6	7	24	10	12	13		15	18
7	9	3	12	4	15	5	18	6
8	10	12	13	26	17	10	20	24
9	11	21	15	18	19	15	23	12
10	13		17	10	21	20	26	
20	26		34	20	43	10	52	
30	39		52		65		78	
40	52		69	10	86	20	104	
50	65		86	20	108	10	130	
60	78		104		130		156	
70	91		121	10	151	20	182	
80	104		138	20	173	10	208	
90	117		156		195		234	
100	130		173	10	216	20	260	
200	260		346	20	433	10	520	
300	390		520		650		780	
400	520		693	10	866	20	1040	
500	650		866	20	1083	10	1300	
600	780		1040		1300		1560	
700	910		1213	10	1516	20	1820	
800	1040		1386	20	1733	10	2080	
900	1170		1560		1950		2340	
1000	1300		1733	10	2166	20	2600	
2000	2600		3466	20	4333	10	5200	
3000	3900		5200		6500		7800	
4000	5200		6933	10	8666	20	10400	
5000	6500		8666	20	10833	10	13000	
6000	7800		10400		13000		15600	

14 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
14 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	12	1	26	2	10	2	24
2	2	24	3	22	4	20	5	18
3	4	6	5	18	7		8	12
4	5	18	7	14	9	10	11	6
5	7		9	10	11	20	14	
6	8	12	11	6	14		16	24
7	9	24	13	2	16	10	19	18
8	11	6	14	28	18	20	22	12
9	12	18	16	24	21		25	6
10	14		18	20	23	10	28	
20	28		37	10	46	20	56	
30	42		56		70		84	
40	56		74	20	93	10	112	
50	70		93	10	116	20	140	
60	84		112		140		168	
70	98		130	20	163	10	196	
80	112		149	10	186	20	224	
90	126		168		210		252	
100	140		186	20	233	10	280	
200	280		373	10	466	20	560	
300	420		560		700		840	
400	560		746	20	933	10	1120	
500	700		933	10	1166	20	1400	
600	840		1120		1400		1680	
700	980		1306	20	1633	10	1960	
800	1120		1493	10	1866	20	2240	
900	1260		1680		2100		2520	
1000	1400		1866	20	2333	10	2800	
2000	2800		3733	10	4666	20	5600	
3000	4200		5600		7000		8400	
4000	5600		7466	20	9333	10	11200	
5000	7000		9333	10	11666	20	14000	
6000	8400		11200		14000		16800	

15 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
15 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	15	2		2	15	3	
2	3		4		5		6	
3	4	15	6		7	15	9	
4	6		8		10		12	
5	7	15	10		12	15	15	
6	9		12		15		18	
7	10	15	14		17	15	21	
8	12		16		20		24	
9	13	15	18		22	15	27	
10	15		20		25		30	
20	30		40		50		60	
30	45		60		75		90	
40	60		80		100		120	
50	75		100		125		150	
60	90		120		150		180	
70	105		140		175		210	
80	120		160		200		240	
90	135		180		225		270	
100	150		200		250		300	
200	300		400		500		600	
300	450		600		750		900	
400	600		800		1000		1200	
500	750		1000		1250		1500	
600	900		1200		1500		1800	
700	1050		1400		1750		2100	
800	1200		1600		2000		2400	
900	1350		1800		2250		2700	
1000	1500		2000		2500		3000	
2000	3000		4000		5000		6000	
3000	4500		6000		7500		9000	
4000	6000		8000		10000		12000	
5000	7500		10000		12500		15000	
6000	9000		12000		15000		18000	

16 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In. D.		2 In. D.		$2\frac{1}{2}$ In. D.		3 In. D.	
16 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	18	2	4	2	20	3	6
2	3	6	4	8	5	10	6	12
3	4	24	6	12	8		9	18
4	6	12	8	16	10	20	12	24
5	8		10	20	13	10	16	
6	9	18	12	24	16		19	6
7	11	6	14	28	18	20	22	12
8	12	24	17	2	21	10	25	18
9	14	12	19	6	24		28	24
10	16		21	10	26	20	32	
20	32		42	20	53	10	64	
30	48		64		80		96	
40	64		85	10	106	20	128	
50	80		106	20	133	10	160	
60	96		128		160		192	
70	112		149	10	186	20	224	
80	128		170	20	213	10	256	
90	144		192		240		288	
100	160		213	10	266	20	320	
200	320		426	20	533	10	640	
300	480		640		800		960	
400	640		853	10	1066	20	1280	
500	800		1066	20	1333	10	1600	
600	960		1280		1600		1920	
700	1120		1493	10	1866	20	2240	
800	1280		1706	20	2133	10	2560	
900	1440		1920		2400		2880	
1000	1600		2133	10	2666	20	3200	
2000	3200		4266	20	5333	10	6400	
3000	4800		6400		8000		9600	
4000	6400		8533	10	10666	20	12800	
5000	8000		10666	20	13333	10	16000	
6000	9600		12800		16000		19200	

17 Feet Deals from 1½ to 3 Inches Thick, brought into 10 Feet Deals 1½ Inch Thick.

	1½ In. D.	2 In. D.	2½ In. D.	3 In. D.
17 Ft. Deals.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.
1	1 21	2 8	2 25	3 12
2	3 12	4 16	5 20	6 24
3	5 3	6 24	8 15	10 6
4	6 24	9 2	11 10	13 18
5	8 15	11 10	14 5	17
6	10 6	13 18	17	20 12
7	11 27	15 26	19 25	23 24
8	13 18	18 4	22 20	27 6
9	15 9	20 12	25 15	30 18
10	17	22 20	28 10	34
20	34	45 10	56 20	68
30	51	68	85	102
40	68	90 20	113 10	136
50	85	113 10	141 20	170
60	102	136	170	204
70	119	158 20	198 10	238
80	136	181 10	226 20	272
90	153	204	255	306
100	170	226 20	283 10	340
200	340	453 10	566 20	680
300	510	680	850	1020
400	680	906 20	1133 10	1360
500	850	1133 10	1416 20	1700
600	1020	1360	1700	2040
700	1190	1586 20	1983 10	2380
800	1360	1813 10	2266 20	2720
900	1530	2040	2550	3060
1000	1700	2266 20	2833 10	3400
2000	3400	4533 10	5666 20	6800
3000	5100	6800	8500	10200
4000	6800	9066 20	11333 10	13600
5000	8500	11333 10	14166 20	17000
6000	10200	13600	17000	20400

18 Feet Deals from 1½ to 3 Inches Thick, brought into 10 Feet Deals 1½ Inch Thick.

	1½ In D.	2 In. D.	2½ In. D.	3 In. D.
18 Ft. Deals.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.
1	1 24	2 12	3	3 18
2	3 18	4 24	6	7 6
3	5 12	7 6	9	10 24
4	7 6	9 18	12	14 12
5	9	12	15	18
6	10 24	14 12	18	21 18
7	12 18	16 24	21	25 6
8	14 12	19 6	24	28 24
9	16 6	21 18	27	32 12
10	18	24	30	36
20	36	48	60	72
30	54	72	90	108
40	72	96	120	144
50	90	120	150	180
60	108	144	180	216
70	126	168	210	252
80	144	192	240	288
90	162	216	270	324
100	180	240	300	360
200	360	480	600	720
300	540	720	900	1080
400	720	960	1200	1440
500	900	1200	1500	1800
600	1080	1440	1800	2160
700	1260	1680	2100	2520
800	1440	1920	2400	2880
900	1620	2160	2700	3240
1000	1800	2400	3000	3600
2000	3600	4800	6000	7200
3000	5400	7200	9000	10800
4000	7200	9600	12000	14400
5000	9000	12000	15000	18000
6000	10800	14400	18000	21600

19 Feet Deals from 1½ to 3 Inches Thick, brought into 10 Feet Deals 1½ Inch Thick.

	1½ In. D.		2 In. D.		2½ In. D.		3 In. D.	
19 Ft. Deals.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.	*Standard.* D.	Pts.
1	1	27	2	16	3	5	3	24
2	3	24	5	2	6	10	7	18
3	5	21	7	18	9	15	11	12
4	7	18	10	4	12	20	15	6
5	9	15	12	20	15	25	19	
6	11	12	15	6	19		22	24
7	13	9	17	22	22	5	26	18
8	15	6	20	8	25	10	30	12
9	17	3	22	24	28	15	34	6
10	19		25	10	31	20	38	
20	38		50	20	63	10	76	
30	57		76		95		114	
40	76		101	10	126	20	152	
50	95		126	20	158	10	190	
60	114		152		190		228	
70	133		177	10	221	20	266	
80	152		202	20	253	10	304	
90	171		228		285		342	
100	190		253	10	316	20	380	
200	380		506	20	633	10	760	
300	570		760		950		1140	
400	760		1013	10	1266	20	1520	
500	950		1266	20	1583	10	1900	
600	1140		1520		1900		2280	
700	1330		1773	10	2216	20	2660	
800	1520		2026	20	2533	10	3040	
900	1710		2280		2850		3420	
1000	1900		2533	10	3166	20	3800	
2000	3800		5066	20	6333	10	7600	
3000	5700		7600		9500		11400	
4000	7600		10133	10	12666	20	15200	
5000	9500		12666	20	15833	10	19000	
6000	11400		15200		19000		22800	

20 Feet Deals from $1\frac{1}{2}$ to 3 Inches Thick, brought into 10 Feet Deals $1\frac{1}{2}$ Inch Thick.

	$1\frac{1}{2}$ In. D.	2 In. D.	$2\frac{1}{2}$ In. D.	3 In. D.
20 Ft. Deals.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.	*Standard.* D. Pts.
1	2	2 20	3 10	4
2	4	5 10	6 20	8
3	6	8	10	12
4	8	10 20	13 10	16
5	10	13 10	16 20	20
6	12	16	20	24
7	14	18 20	23 10	28
8	16	21 10	26 20	32
9	18	24	30	36
10	20	26 20	33 10	40
20	40	53 10	66 20	80
30	60	80	100	120
40	80	106 20	133 10	160
50	100	133 10	166 20	200
60	120	160	200	240
70	140	186 20	233 10	280
80	160	213 10	266 20	320
90	180	240	300	360
100	200	266 20	333 10	400
200	400	533 10	666 20	800
300	600	800	1000	1200
400	800	1066 20	1333 10	1600
500	1000	1333 10	1666 20	2000
600	1200	1600	2000	2400
700	1400	1866 20	2333 10	2800
800	1600	2133 10	2666 20	3200
900	1800	2400	3000	3600
1000	2000	2666 20	3333 10	4000
2000	4000	5333 10	6666 20	8000
3000	6000	8000	10000	12000
4000	8000	10666 20	13333 10	16000
5000	10000	13333 10	16666 20	20000
6000	12000	16000	20000	24000

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